

## CLAIM

1. A part positioning method in which a part supported by a self-traveling  
5 machine is positioned with respect to a part fitting object, comprising the steps of:  
    setting on said part fitting object an engaging means provided on a tip end of a  
    wire member which is possible to be pulled out and wound up;  
    detecting a pulled-out length and an existing location of said wire member and  
    moving said self-traveling machine to eliminate relative positional discrepancies  
10 between said part fitting object and the part;  
    fitting the part to said part fitting object in the state that the positional  
    discrepancies are eliminated; and  
    after fitting the part to said part fitting object, removing and retrieving said  
    engaging means from said part fitting object.
- 15 2. A part positioning apparatus for positioning a part supported by a self-traveling  
machine with respect to a part fitting object, comprising:  
    an engaging means being provided on a tip end of a wire member so as to be  
    set on said part fitting object;  
    a sensed member for accommodating said wire member in such a state as to be  
20 pulled out and wound up;  
    a first sensor for detecting a pulled-out length of said wire member when said  
    engaging means is set on said part fitting object;  
    a second sensor for detecting an existing location of said wire member when  
    said engaging means is set on said part fitting object; and  
25 a controller means for controlling a traveling amount of said self-traveling  
machine such that each of detection values of said first sensor and said second sensor is  
in agreement with a reference value.